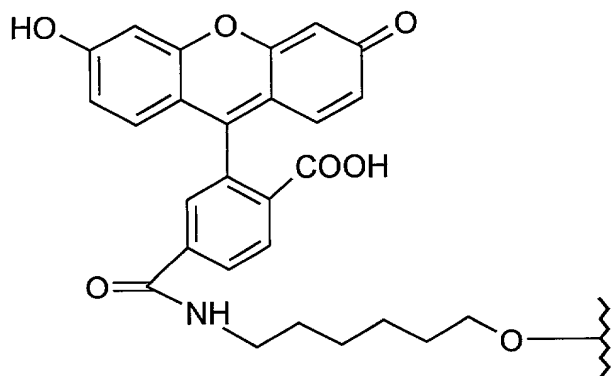
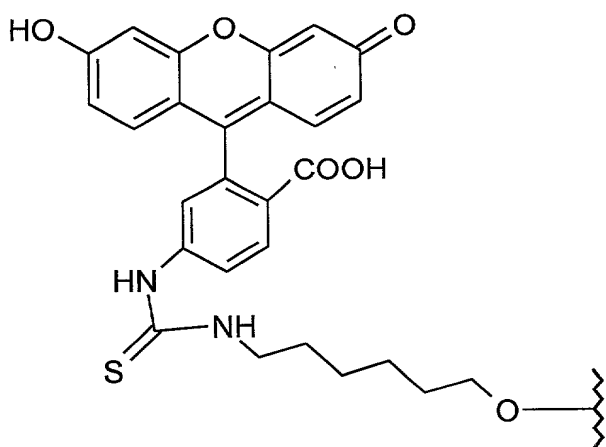


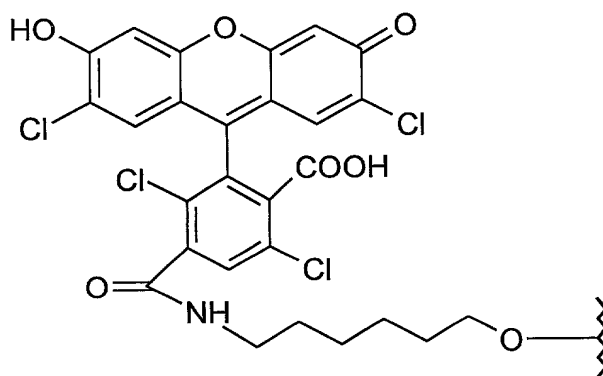
Fig. 1a:



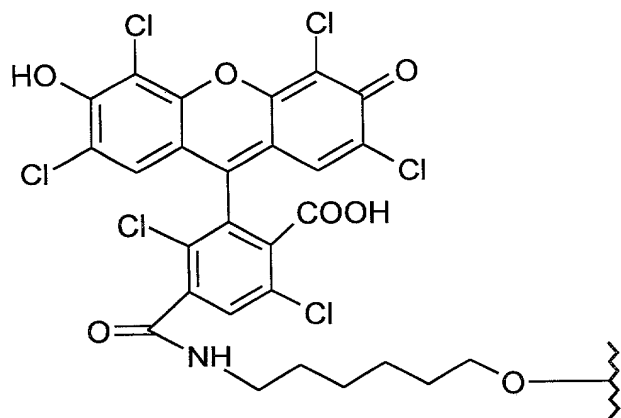
Fluorescein (Amide)



Fluorescein (Thiourea)



Tetrachlorofluorescein



Hexachlorofluorescein

Fig. 1b:

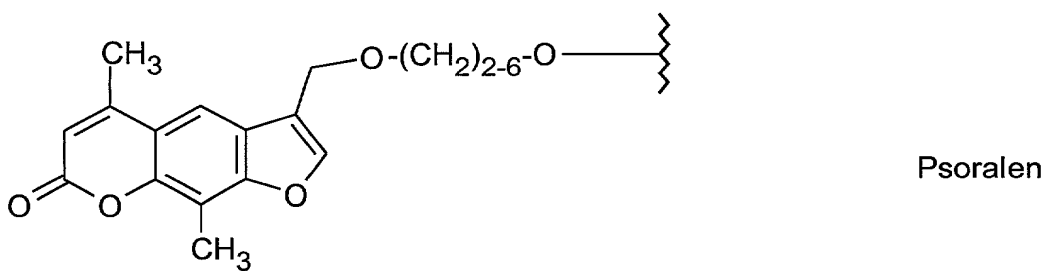
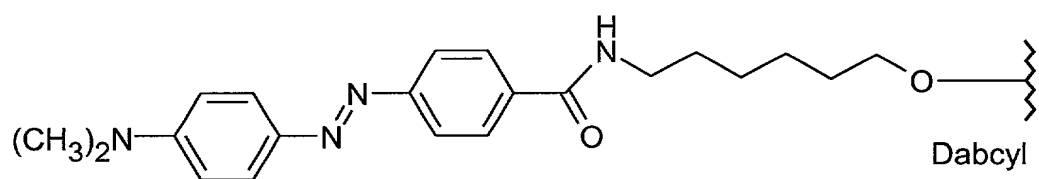
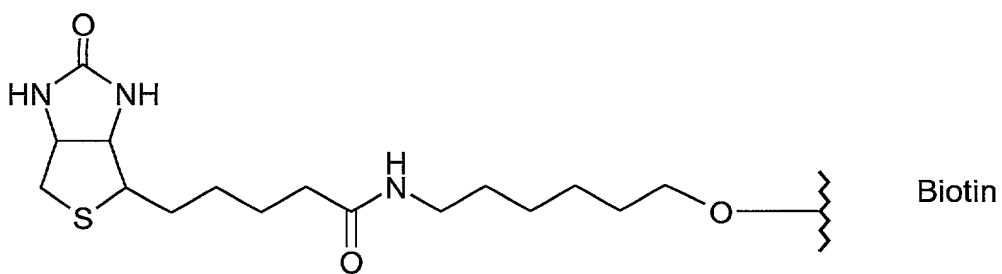


Fig. 2a:

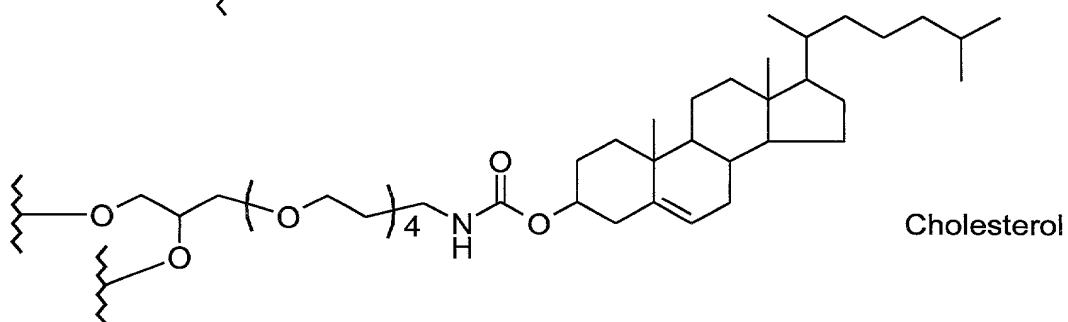
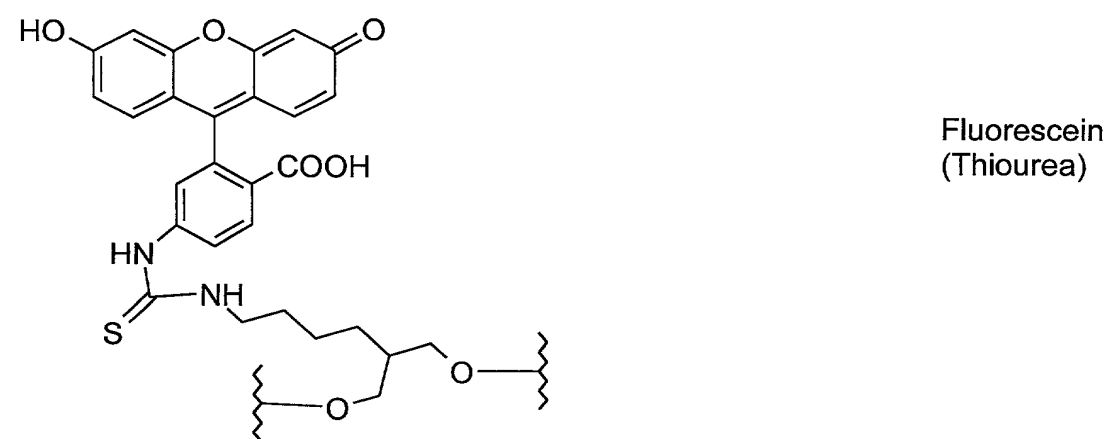
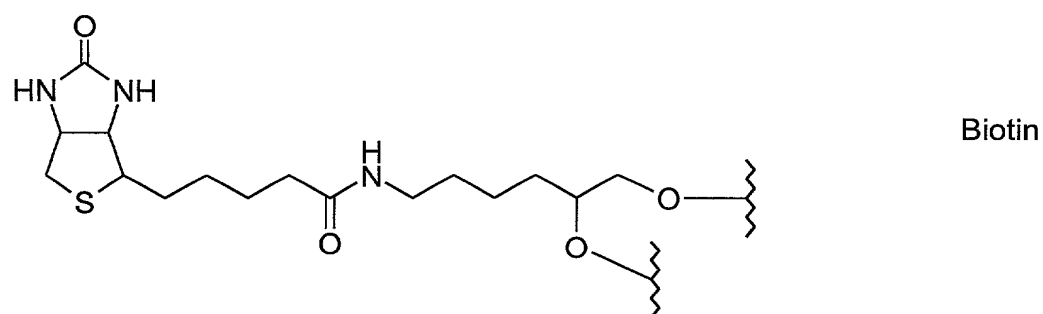
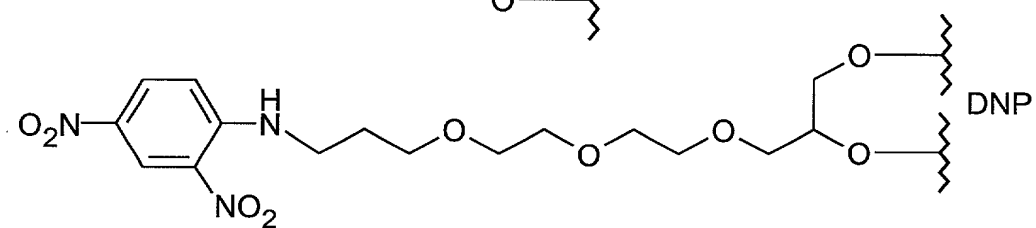
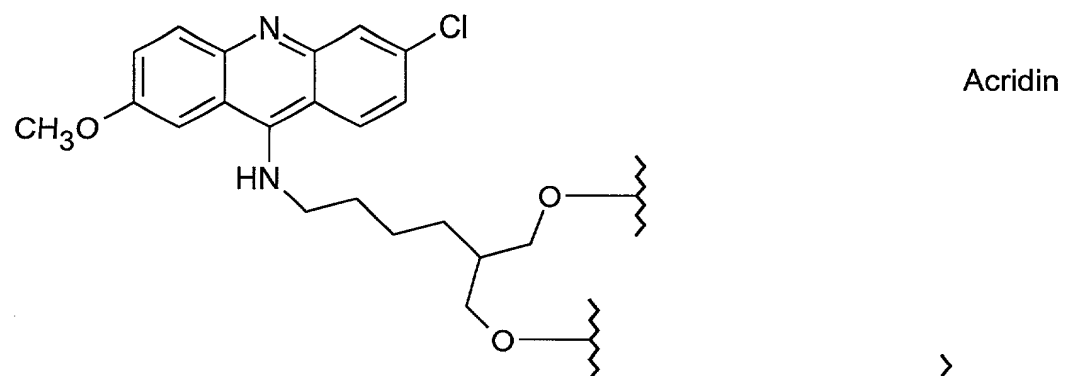
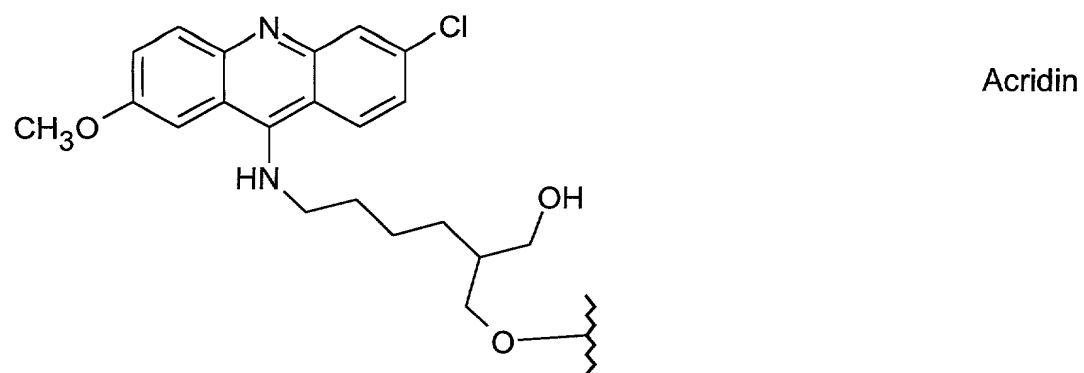
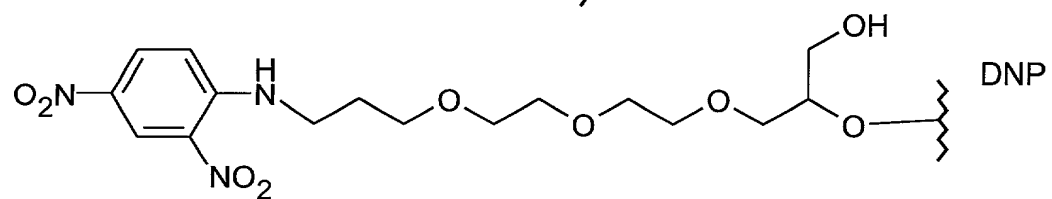


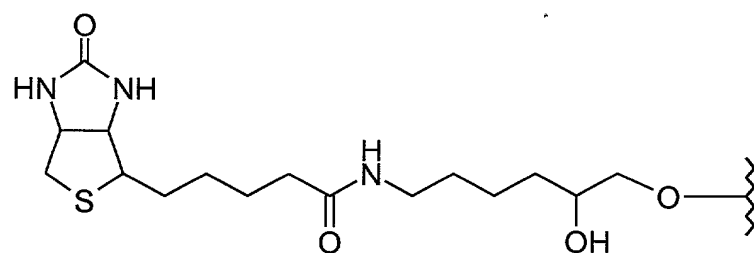
Fig. 2b:



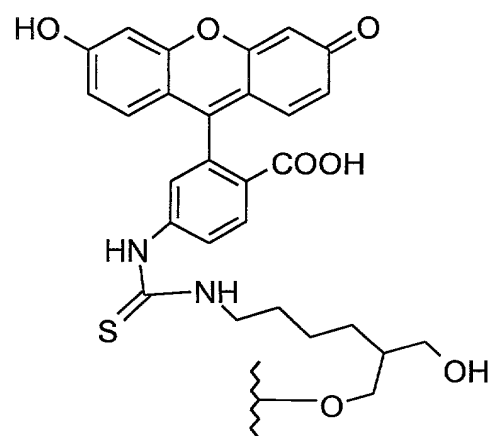
Acridin



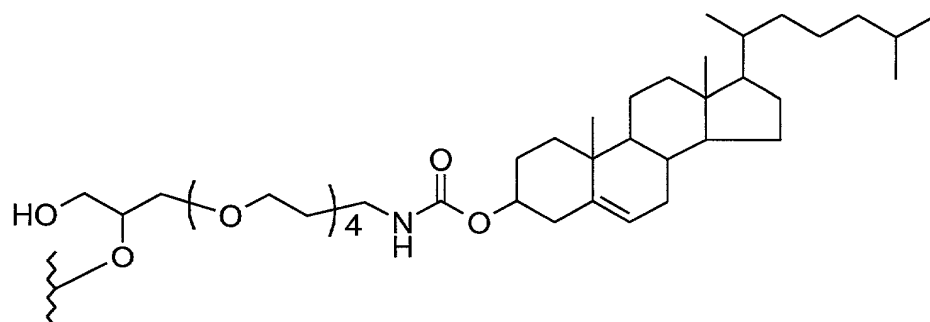
DNP



Biotin

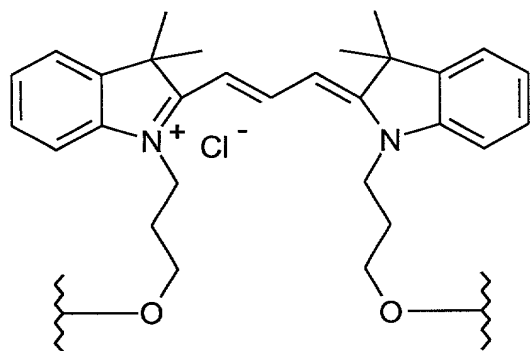


Fluorescein
(Thiourea)

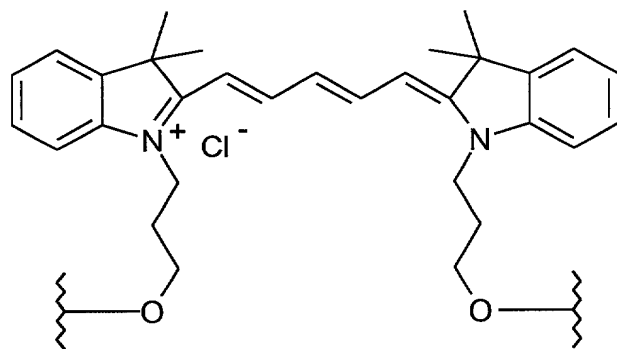


Cholesterol

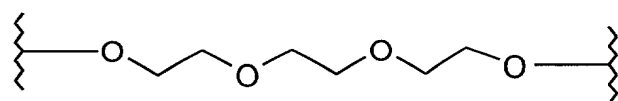
Fig. 3a:



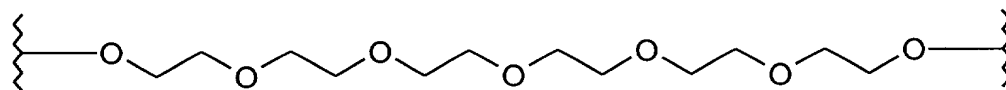
Cy3



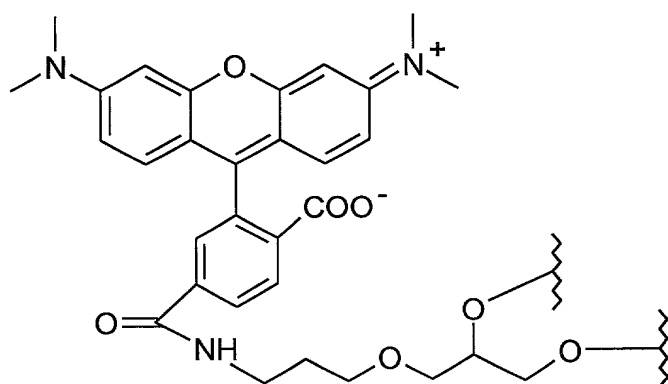
Cy5



Spacer-9

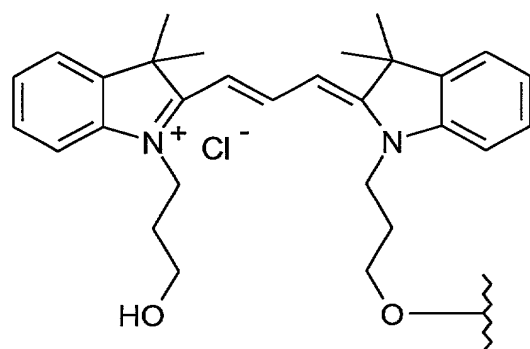


Spacer-18

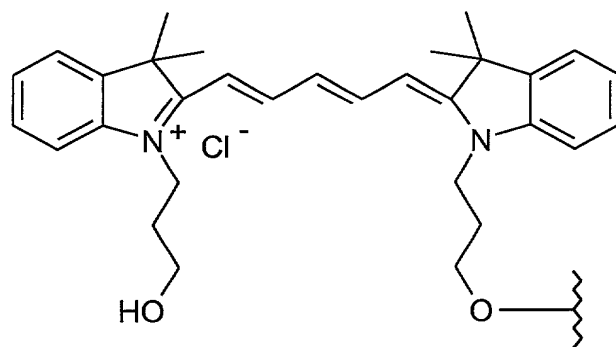


TAMRA

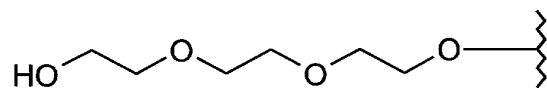
Fig. 3b:



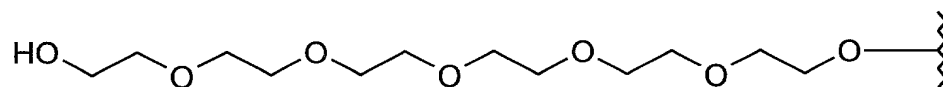
Cy3



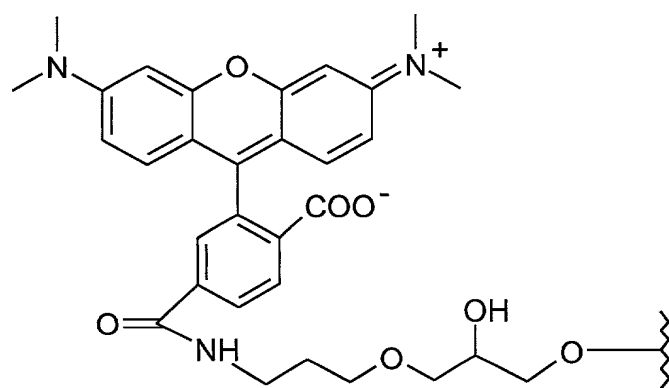
Cy5



Spacer-9

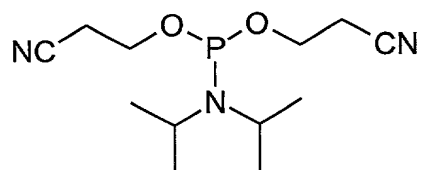


Spacer-18

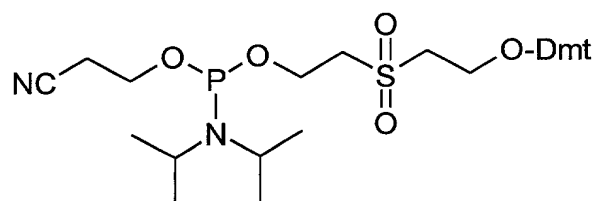


TAMRA

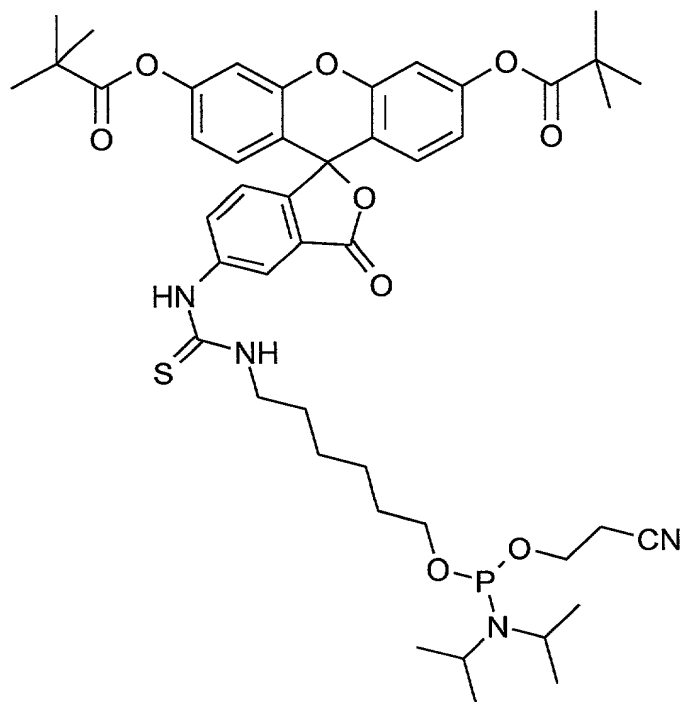
Fig. 4a:



Phosphorylating reagent 1



Phosphorylating reagent 2



Fluorescein phosphoramidite 3
(monofunctional)

Parameter	Unit	Value	Uncertainty
α	deg	1.2	0.1
β	deg	1.5	0.2
γ	deg	1.8	0.3
δ	deg	2.1	0.4
ϵ	deg	2.4	0.5
ζ	deg	2.7	0.6
η	deg	3.0	0.7
θ	deg	3.3	0.8
ι	deg	3.6	0.9
κ	deg	3.9	1.0
λ	deg	4.2	1.1
μ	deg	4.5	1.2
ν	deg	4.8	1.3
ξ	deg	5.1	1.4
\omicron	deg	5.4	1.5
π	deg	5.7	1.6
ρ	deg	6.0	1.7
σ	deg	6.3	1.8
τ	deg	6.6	1.9
υ	deg	6.9	2.0
ϕ	deg	7.2	2.1
χ	deg	7.5	2.2
ψ	deg	7.8	2.3
ω	deg	8.1	2.4
φ	deg	8.4	2.5
ϑ	deg	8.7	2.6
ϑ	deg	9.0	2.7
ϑ	deg	9.3	2.8
ϑ	deg	9.6	2.9
ϑ	deg	9.9	3.0
ϑ	deg	10.2	3.1
ϑ	deg	10.5	3.2
ϑ	deg	10.8	3.3
ϑ	deg	11.1	3.4
ϑ	deg	11.4	3.5
ϑ	deg	11.7	3.6
ϑ	deg	12.0	3.7
ϑ	deg	12.3	3.8
ϑ	deg	12.6	3.9
ϑ	deg	12.9	4.0
ϑ	deg	13.2	4.1
ϑ	deg	13.5	4.2
ϑ	deg	13.8	4.3
ϑ	deg	14.1	4.4
ϑ	deg	14.4	4.5
ϑ	deg	14.7	4.6
ϑ	deg	15.0	4.7
ϑ	deg	15.3	4.8
ϑ	deg	15.6	4.9
ϑ	deg	15.9	5.0
ϑ	deg	16.2	5.1
ϑ	deg	16.5	5.2
ϑ	deg	16.8	5.3
ϑ	deg	17.1	5.4
ϑ	deg	17.4	5.5
ϑ	deg	17.7	5.6
ϑ	deg	18.0	5.7
ϑ	deg	18.3	5.8
ϑ	deg	18.6	5.9
ϑ	deg	18.9	6.0
ϑ	deg	19.2	6.1
ϑ	deg	19.5	6.2
ϑ	deg	19.8	6.3
ϑ	deg	20.1	6.4
ϑ	deg	20.4	6.5
ϑ	deg	20.7	6.6
ϑ	deg	21.0	6.7
ϑ	deg	21.3	6.8
ϑ	deg	21.6	6.9
ϑ	deg	21.9	7.0
ϑ	deg	22.2	7.1
ϑ	deg	22.5	7.2
ϑ	deg	22.8	7.3
ϑ	deg	23.1	7.4
ϑ	deg	23.4	7.5
ϑ	deg	23.7	7.6
ϑ	deg	24.0	7.7
ϑ	deg	24.3	7.8
ϑ	deg	24.6	7.9
ϑ	deg	24.9	8.0
ϑ	deg	25.2	8.1
ϑ	deg	25.5	8.2
ϑ	deg	25.8	8.3
ϑ	deg	26.1	8.4
ϑ	deg	26.4	8.5
ϑ	deg	26.7	8.6
ϑ	deg	27.0	8.7
ϑ	deg	27.3	8.8
ϑ	deg	27.6	8.9
ϑ	deg	27.9	9.0
ϑ	deg	28.2	9.1

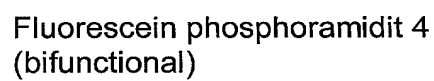
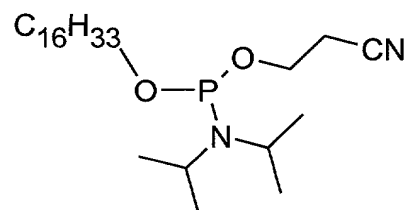
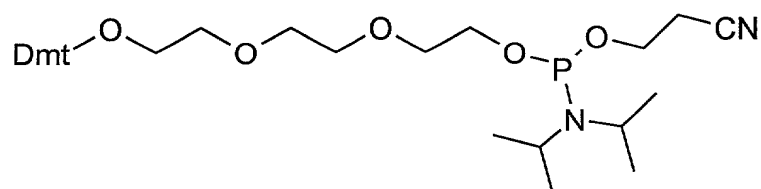


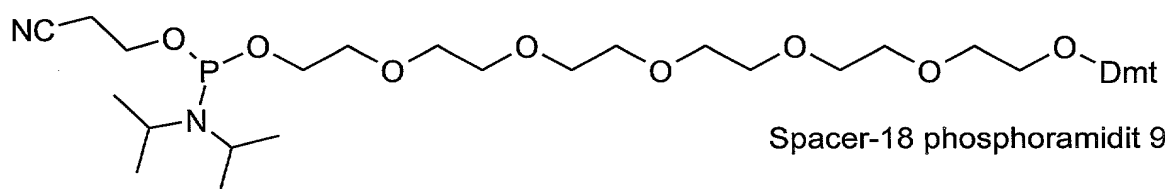
Fig. 4c:



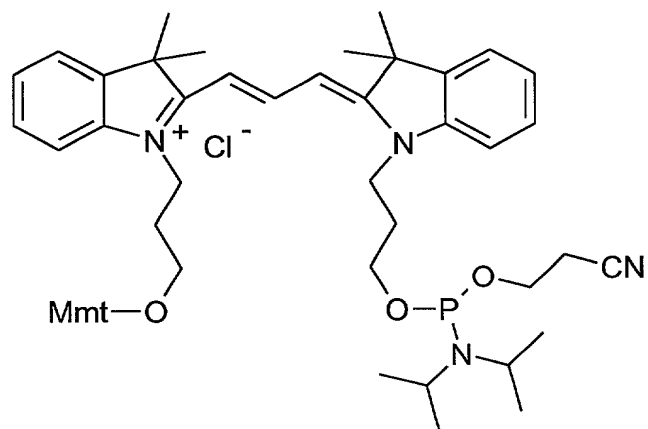
C16-phosphorylating reagent 7



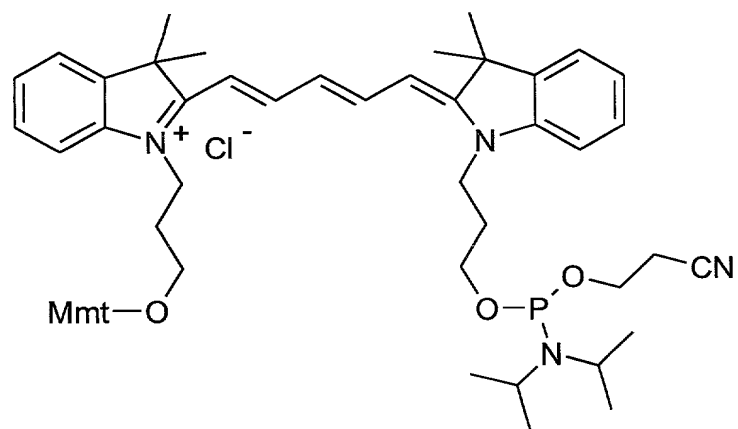
Spacer-9 phosphoramidite 8



Spacer-18 phosphoramidite 9

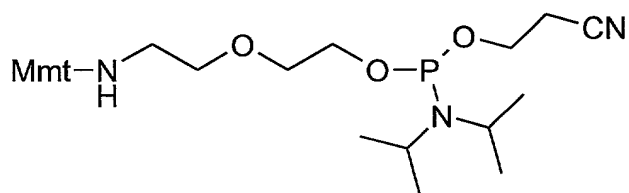


Cyanin-3 phosphoramidite 10

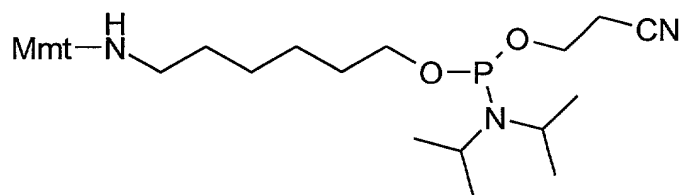


Cyanin-5 phosphoramidite 11

Fig. 4d:



Aminomodifier-5
phosphoramidite 12



Aminomodifier-C6
phosphoramidite 13

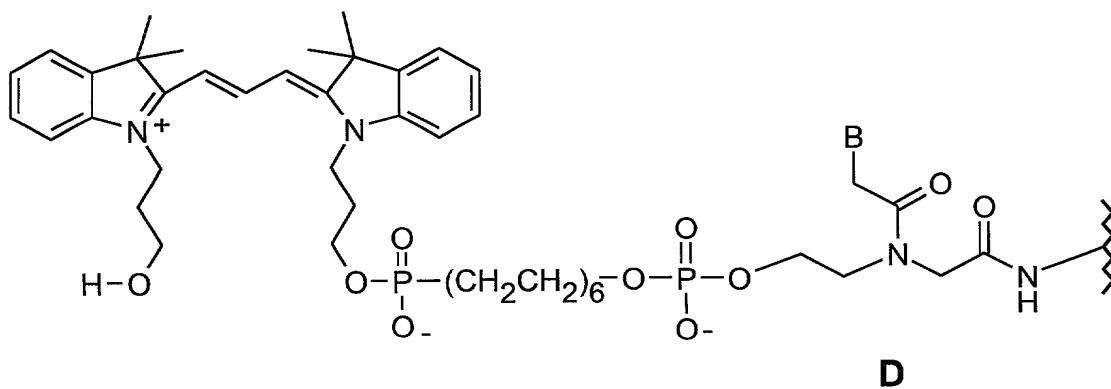
[illegible]

Fig. 5b:

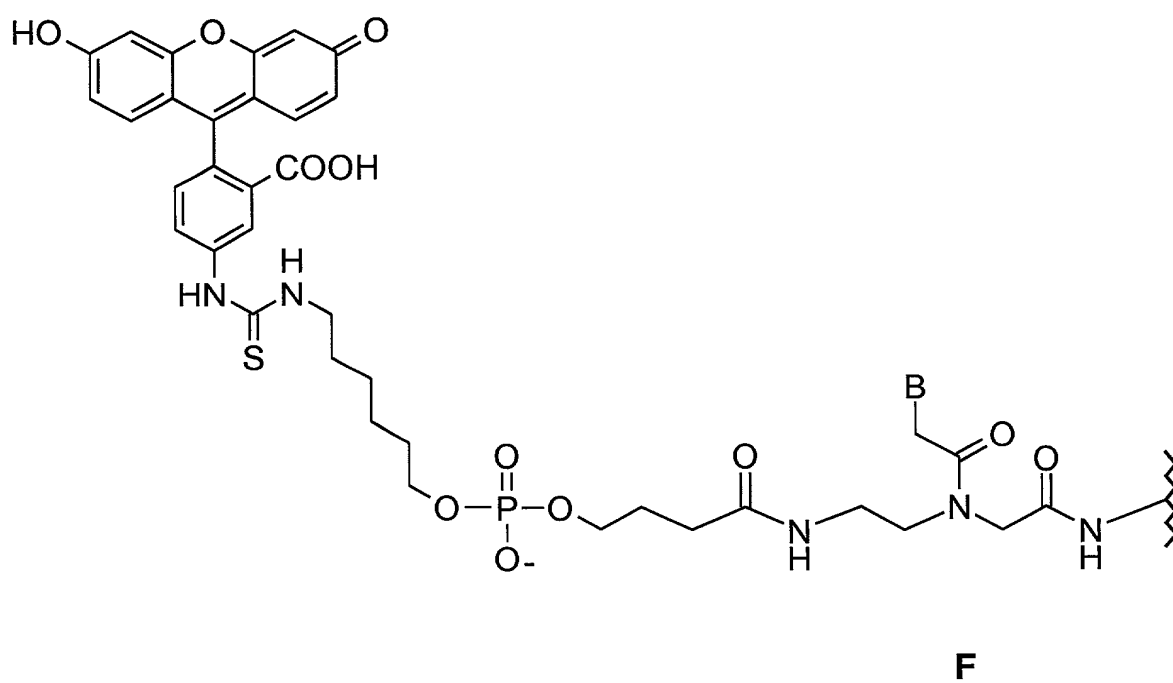
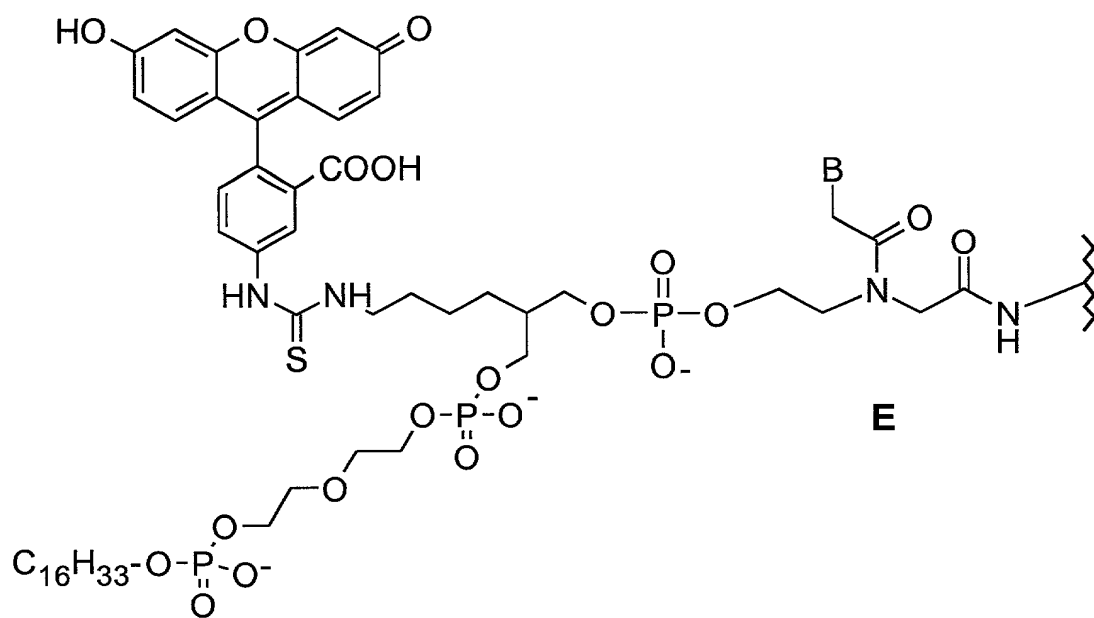
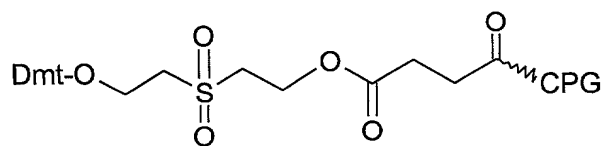
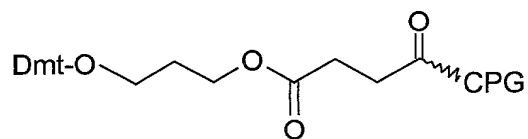


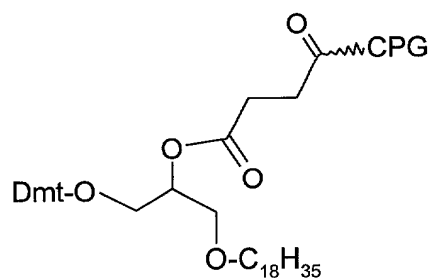
Fig. 6:



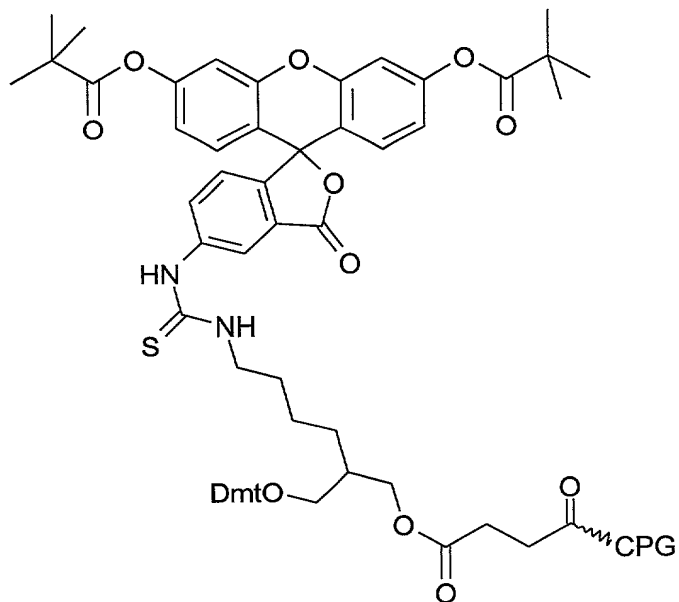
Bishydroxyethylsulfonyl support 1



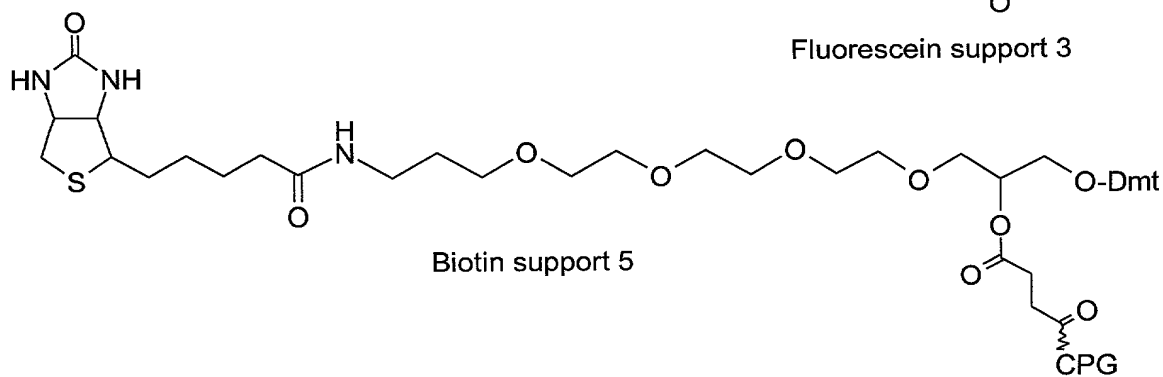
3'-Spacer-C3 support 2



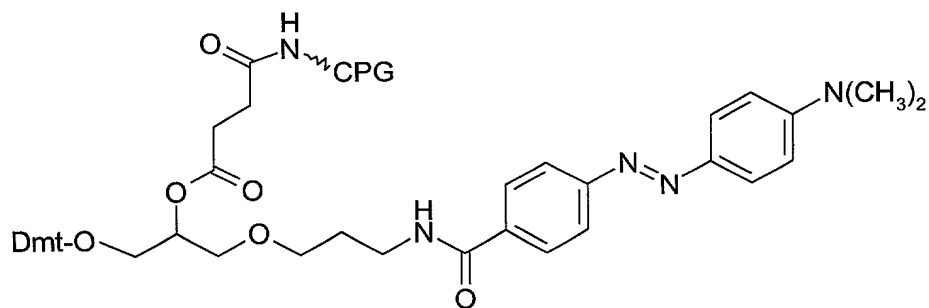
3'-Batyl support 4



Fluorescein support 3

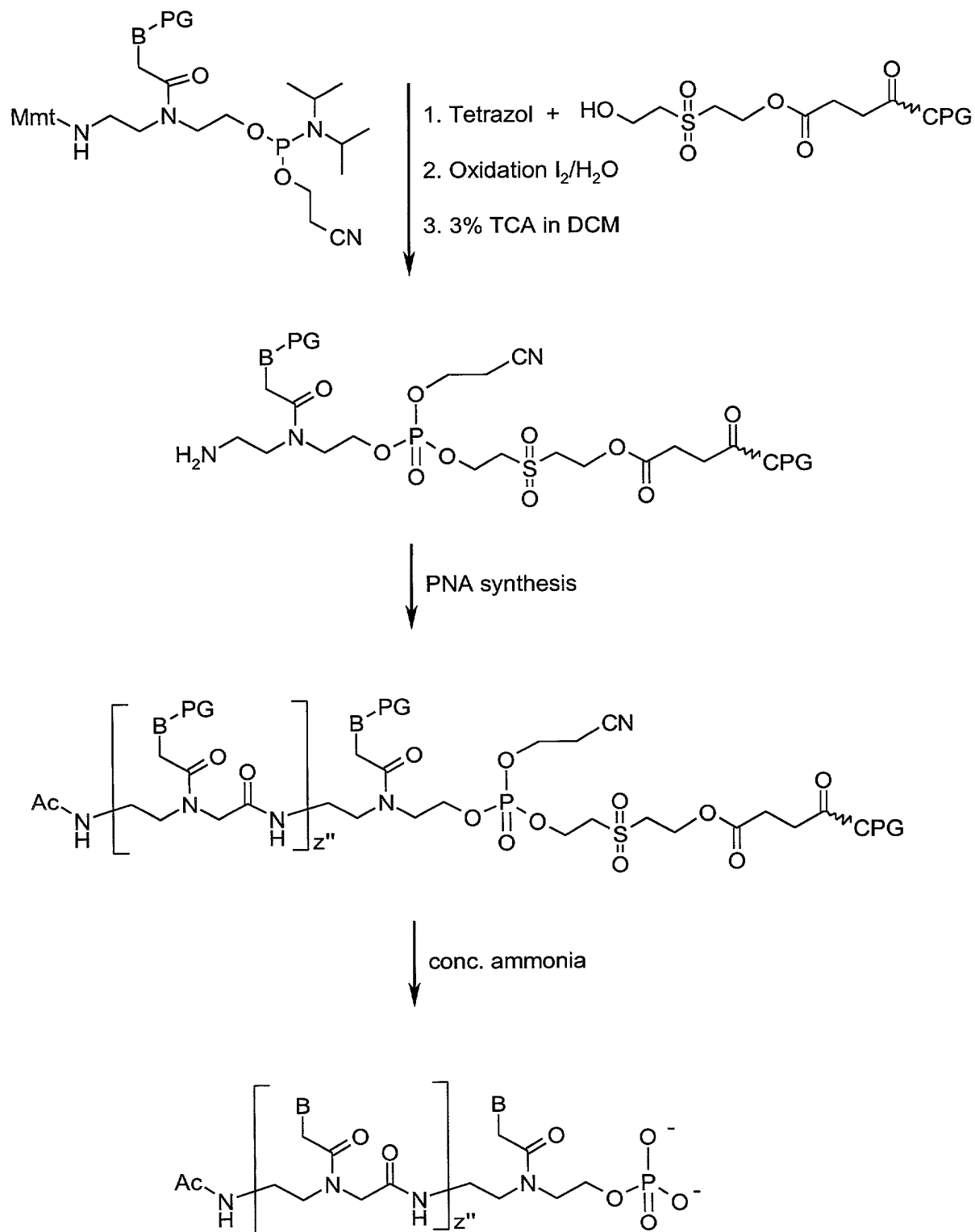


Biotin support 5



DABCYL support 6

Fig. 7:



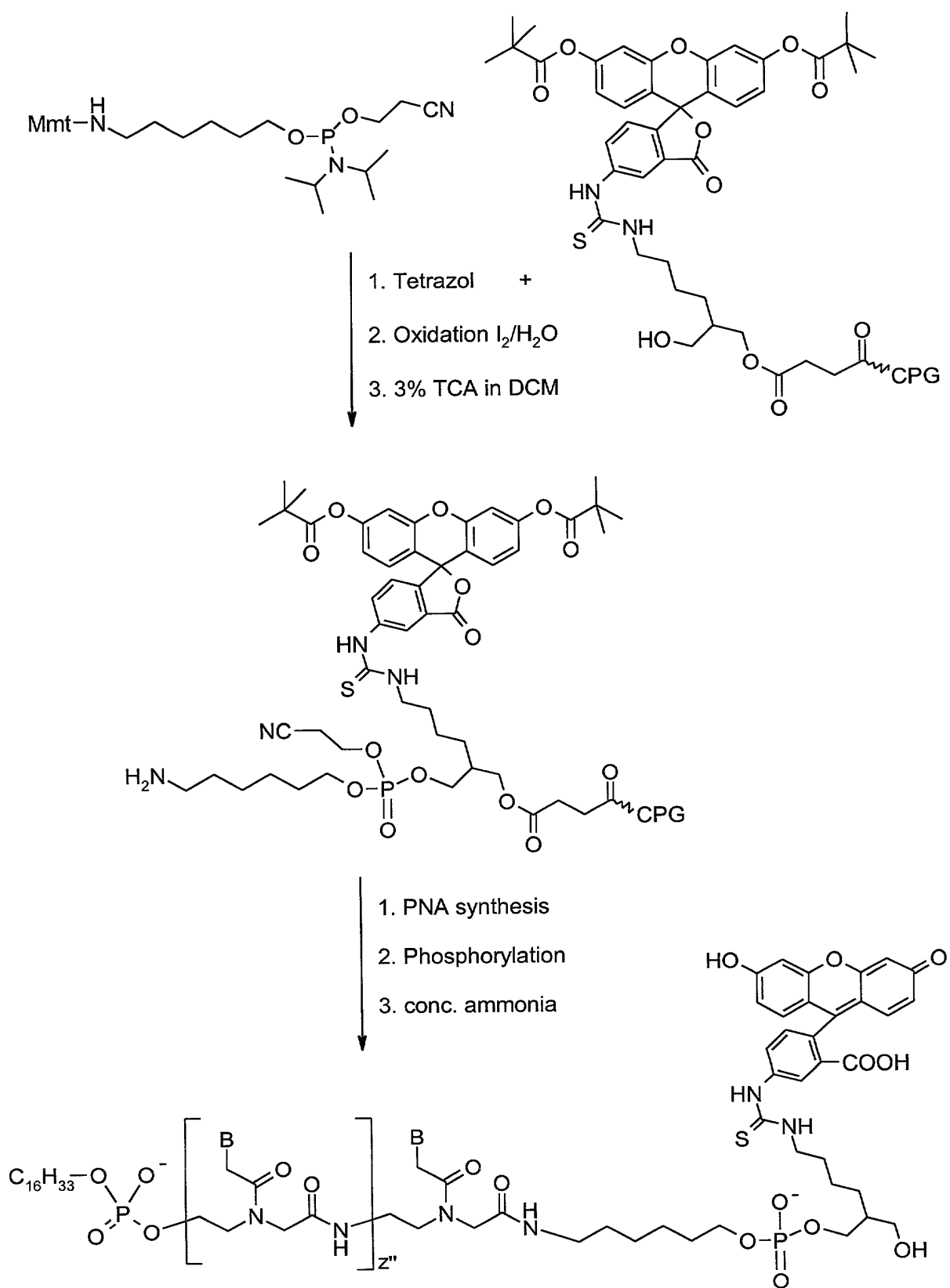
[illegible]

Fig. 9:

